

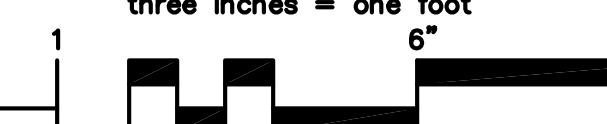
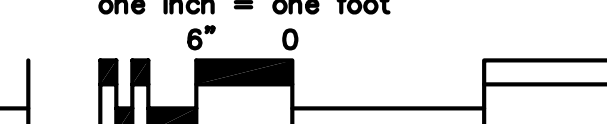
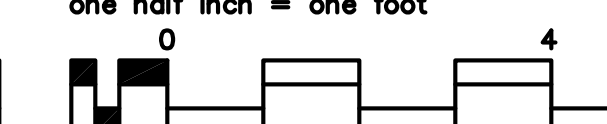
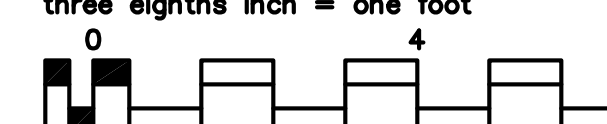
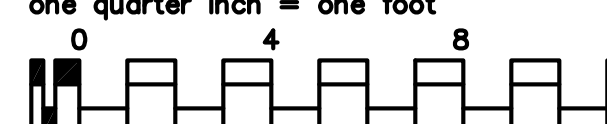
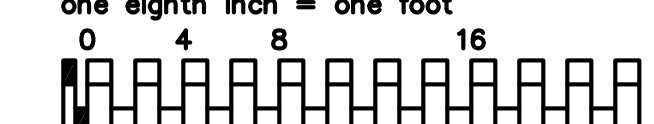
LOUIS STOKES VA MEDICAL CENTER, CLEVELAND												
STEAM TRAP MONITORING SYSTEM, INSULATION AND PIPING UPGRADES												
STEAM TRAP TAG NO.	LOCATION	TRAP DRAWING REFERENCE NO.	AREA	TRAP TYPE	ELEV. AFT.	TRAP MODEL, MFG. & PIPE SIZE	P IN	EQUIPMENT SERVED	COND	REMARKS		
171	MAIN PENTHOUSE STAIRWELL #6 PENTHOUSE AC-17 SIDE HEAT EXCHANGER	3-PH2	2	F	3	Z' DUNHAM BUSH 30-9AS	10M	HEAT EXCHANGER	OK	STEAM TRAP IS COLD OUT OF SERVICE. IF REQUIRED, REPAIR WITH TUNSTALL #RK-30-9AS REPAIR KIT. TRAP, STEAM TRAP IS MOUNTED IN PARALLEL TO TRAP #172. HAS SWING CHECK VALVE IN REVERSE. USED AS VACUUM BREAKER IN SHEL. REMOVE HOFFMAN AIR VENT AT HEAT EXCHANGER OUTLET & INSTALL TUNSTALL VB-34 STEAM SERVICE VACUUM BREAKER. INSPECTED 7/27/12.		
172	MAIN PENTHOUSE STAIRWELL #6 PENTHOUSE AC-17 SIDE HEAT EXCHANGER	3-PH2	2	F	3	Z' DUNHAM BUSH 30-9AS	10M	HEAT EXCHANGER	OK	STEAM TRAP IS OK. WHEN WORK, REPAIR WITH TUNSTALL #RK-30-9AS REPAIR KIT. STEAM TRAP IS MOUNTED IN PARALLEL TO TRAP #171. INSPECTED 7/27/12.		
173	MAIN PENTHOUSE STAIRWELL #5 AC-17 AHU STEAM COIL, NORTH	3-PH2	2	F	2	Z' TUNSTALL TH-FT-15	10M	STEAM COIL	CP	STEAM TRAP IS COLD. SHOULD BE HOT. STEAM CONTROL VALVE VIA FUNCTION. IF REQUIRED, REPAIR STEAM TRAP WITH #RK-CTA-15 FACE PLATE REPAIR KIT. TRAP HAS STEAM SERVICE VACUUM BREAKER IN OUTLET & HAS INSULATION COVER. INSPECTED 7/27/12.		
174	MAIN PENTHOUSE STAIRWELL #5 AC-17 AHU STEAM COIL, NORTH	3-PH2	2	F	2	Z' TUNSTALL TH-FT-15	10M	STEAM COIL	CP	STEAM TRAP IS COLD. SHOULD BE HOT. STEAM CONTROL VALVE VIA FUNCTION. IF REQUIRED, REPAIR STEAM TRAP WITH #RK-CTA-15 FACE PLATE REPAIR KIT. TRAP HAS STEAM SERVICE VACUUM BREAKER IN OUTLET & HAS INSULATION COVER. INSPECTED 7/27/12.		
175	MAIN PENTHOUSE STAIRWELL #5 AC-17 AHU STEAM COIL, SOUTH	3-PH2	2	F	2	Z' TUNSTALL TH-FT-15	10M	STEAM COIL	OK	STEAM TRAP IS OK. WHEN WORK, REPAIR WITH #RK-CTA-15 FACE PLATE REPAIR KIT. TRAP HAS STEAM SERVICE VACUUM BREAKER AT COIL OUTLET. INSPECTED 7/27/12.		
176	MAIN PENTHOUSE STAIRWELL #5 AC-17 AHU STEAM COIL, SOUTH	3-PH2	2	F	2	Z' TUNSTALL TH-FT-15	10M	STEAM COIL	OK	STEAM TRAP IS COLD OUT OF SERVICE. IF REQUIRED, REPAIR WITH TUNSTALL #RK-15-83 FACE PLATE REPAIR KIT. HAS CHECK VALVE IN REVERSE IN OUTLET AS VACUUM BREAKER AND IS PLUGGED. REMOVE AND INSTALL TUNSTALL VB-34 STEAM SERVICE VACUUM BREAKER. HAS COPPER CONDENSATE DISCHARGE LINE. INSPECTED 7/27/12.		
177	MAIN PENTHOUSE STAIRWELL #5 AC-17 SOUTH CORNER UNIT HEATER	3-PH2	2	F	22	3/4" ARNSTONG 15-83	10	UNIT HEATER	CO	STEAM TRAP IS COLD. SHOULD BE HOT. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH SPRAXX #8004 REPAIR KIT. STEAM PRESSURE GAUGE IS MISSING. INSPECTED 7/27/12.		
178	1ST FL. SPD STERILIZER DRIP #1	3-1-4	3 AND 4	B	3	1/2" SPRAXX BTH-25	70	STEAM MAIN DRIP	OK	HAS NEW 3/4" SPRAXX BTH-25. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH SPRAXX #8004 REPAIR KIT. INSPECTED 7/31/12.		
179	1ST FL. SPD OVERHEAD DRIP ABOVE STERILIZER #1	3-1-4	3 AND 4	B	12	3/4" SPRAXX BTH-25	70	STEAM MAIN DRIP	OK	HAS NEW 3/4" SPRAXX BTH-25. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH SPRAXX #8004 REPAIR KIT. INSPECTED 7/31/12.		
180	1ST FL. SPD STERILIZER DRIP #2	3-1-4	3 AND 4	B	3	1/2" SPRAXX BTH-25	70	STEAM MAIN DRIP	OK	HAS NEW 3/4" SPRAXX BTH-25. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH SPRAXX #8004 REPAIR KIT. INSPECTED 7/31/12.		
181	1ST FL. SPD STERILIZER #3 DRIP TRAP	3-1-4	3 AND 4	B	4	1/2" SPRAXX BTH-25	70	STEAM MAIN DRIP	OK	HAS NEW 3/4" SPRAXX BTH-25. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH SPRAXX #8004 REPAIR KIT. TRAP IS BEHIND SS PANEL. INSPECTED 8/1/12.		
182	1ST FL. SPD CART WASHER ROOM 115 CLOSET	3-1-4	3 AND 4	D	4	3/4" SPRAXX TD-52L	70	STEAM MAIN DRIP	BT	REPLACE DEFECTIVE STEAM TRAP WITH NEW 3/4" SPRAXX BTH-25 OR 3/4" ARNSTONG #89-1-25 INVERTED BUCKET STEAM TRAP. INSPECTED 7/31/12.		
183	1ST FL. SPD CART WASHER ROOM 115 CLOSET	3-1-4	3 AND 4	D	3	1" SPRAXX TD-52L	70M	STEAM COIL	OK	STEAM TRAP IS OK. BUT SHOWS WEAR. WHEN WORK, REPLACE WITH NEW 1" SPRAXX B3 OR 1" ARNSTONG 813-25 INVERTED BUCKET STEAM TRAP. INSPECTED 7/31/12.		
184	1ST FL. SPD STEAM SUPPLY ROOM NEXT TO CART WASHER	3-1-4	3 AND 4	B	9	3/4" SPRAXX BTH-25	70	STEAM MAIN DRIP	OK	HAS NEW 3/4" SPRAXX BTH-25. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH SPRAXX #8004 REPAIR KIT. TRAP IS BEHIND SS PANEL. INSPECTED 8/1/12.		
185	1ST FLOOR MECH. ROOM B-309 HEAT EXCHANGER #1	3-1-4	4	F	5	1 1/2" SPRAXX FT-15	10M	HEAT EXCHANGER	OK	HAS NEW 1 1/2" SPRAXX FT-15. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH TUNSTALL #RK-34-15 REPAIR KIT. TRAP HAS VACUUM BREAKER IN STEAM TRAP OUTLET. INSPECTED 8/1/12.		
186	1ST FLOOR MECH. ROOM B-309 HEAT EXCHANGER #2	3-1-4	4	F	5	1 1/2" SPRAXX FT-15	10M	HEAT EXCHANGER	OK	HAS NEW 1 1/2" SPRAXX FT-15. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH TUNSTALL #RK-34-15 REPAIR KIT. TRAP HAS VACUUM BREAKER IN STEAM TRAP OUTLET. INSPECTED 8/1/12.		
187	1ST FLOOR MECH. ROOM B-309 HEAT EXCHANGER #3	3-1-4	4	F	5	1 1/2" SPRAXX FT-15	10M	HEAT EXCHANGER	OK	HAS NEW 1 1/2" SPRAXX FT-15. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH TUNSTALL #RK-34-15 REPAIR KIT. TRAP HAS VACUUM BREAKER IN STEAM TRAP OUTLET. INSPECTED 8/1/12.		
188	1ST FLOOR MECH. ROOM B-309 HEAT EXCHANGER #4	3-1-4	4	F	5	1 1/2" SPRAXX FT-15	10M	HEAT EXCHANGER	OK	HAS NEW 1 1/2" SPRAXX FT-15. STEAM TRAP IS OK. WHEN WORK, REPAIR WITH TUNSTALL #RK-34-15 REPAIR KIT. TRAP HAS VACUUM BREAKER IN STEAM TRAP OUTLET. INSPECTED 8/1/12.		
190	EAST PENTHOUSE STAIRWELL #8 PENTHOUSE EAST-1-4-1 AHU HUMIDIFIER	3-2-5	5	F	3	3/4" ARNSTONG 15-83	10M	HUMIDIFIER DRIP	CP	STEAM TRAP IS COLD. SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #RK-15-83 REPAIR KIT. INSPECTED 8/2/12.		
191	EAST PENTHOUSE #2B-900 EAST-1-4-1 AHU HUMIDIFIER	3-2-5	5	F	2	3/4" ARNSTONG 15-83	10M	HUMIDIFIER DRIP	CP	STEAM TRAP IS COLD. SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #RK-15-83 REPAIR KIT. INSPECTED 8/2/12.		
192	EAST PENTHOUSE #2B-900 EAST-2-1 AHU HUMIDIFIER	3-2-5	5	F	2	3/4" ARNSTONG 15-83	10M	HUMIDIFIER DRIP	CP	STEAM TRAP IS COLD. SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #RK-15-83 REPAIR KIT. INSPECTED 8/2/12.		
193	EAST PENTHOUSE #2B-900 EAST-2-1 AHU HUMIDIFIER	3-2-5	5	F	3	3/4" ARNSTONG 15-83	10M	HUMIDIFIER DRIP	CP	STEAM TRAP IS COLD. SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #RK-15-83 REPAIR KIT. INSPECTED 8/2/12.		
194	EAST PENTHOUSE #2B-900 EAST-2-2 AHU HUMIDIFIER	3-2-5	5	F	3	3/4" ARNSTONG 15-83	10M	HUMIDIFIER DRIP	CP	STEAM TRAP IS COLD. SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #RK-15-83 REPAIR KIT. INSPECTED 8/2/12.		
195	EAST PENTHOUSE #2B-900 EAST-2-2 AHU HUMIDIFIER	3-2-5	5	F	2	3/4" ARNSTONG 15-83	10M	HUMIDIFIER DRIP	CP	STEAM TRAP IS COLD. SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #RK-15-83 REPAIR KIT. INSPECTED 8/2/12.		
196	EAST PENTHOUSE #2B-900 EAST-2-2 AHU HUMIDIFIER	3-2-5	5	F	2	3/4" ARNSTONG 15-83	10M	HUMIDIFIER DRIP	CP	STEAM TRAP IS COLD. SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #RK-15-83 REPAIR KIT. INSPECTED 8/2/12.		
197	EAST PENTHOUSE #2B-900 EAST-2-2 AHU HUMIDIFIER	3-2-5	5	F	3	3/4" ARNSTONG 15-83	10M	HUMIDIFIER DRIP	CP	STEAM TRAP IS COLD. SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #RK-15-83 REPAIR KIT. INSPECTED 8/2/12.		
198	EAST PENTHOUSE #2B-900 EAST-2-2 AHU STEAM COIL, NORTH	3-2-5	5	F	12	1 1/4" WATTS WFT-15	10M	STEAM COIL	OK	STEAM TRAP IS OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #RFP-24-15 FACE PLATE KIT. STEAM SERVICE VACUUM BREAKER IN COIL OUTLET. INSPECTED 8/2/12.		
199	EAST PENTHOUSE #2B-900 EAST-2-2 AHU STEAM COIL, LEFT	3-2-5	5	F	12	1 1/4" WATTS WFT-15	10M	STEAM COIL	OK	STEAM TRAP IS OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #RFP-24-15 FACE PLATE KIT. STEAM SERVICE VACUUM BREAKER IN COIL OUTLET. INSPECTED 8/2/12.		
200	EAST PENTHOUSE #2B-900 EAST-2-3 AHU HUMIDIFIER	3-2-5	5	F	2	3/4" ARNSTONG 15-83	10M	HUMIDIFIER DRIP	CP	STEAM TRAP IS COLD. SHOULD BE HOT. INSPECT CONTROL VALVE OR FOR CONDENSATE LINE RESTRICTIONS. IF REQUIRED, REPAIR STEAM TRAP WITH TUNSTALL #RK-15-83 REPAIR KIT. INSPECTED 8/2/12.		
201	EAST PENTHOUSE #2B-900 EAST-2-3 AHU HUMIDIFIER	3-2-5	5	F	1	3/4" ARNSTONG 15-83	10M	HUMIDIFIER DRIP	OK	STEAM TRAP IS OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #RK-15-83 REPAIR KIT. INSPECTED 8/2/12.		
202	EAST PENTHOUSE #2B-900 EAST-2-3 AHU STEAM COIL	3-2-5	5	F	8	1 1/4" SPRAXX FT-15	10M	STEAM COIL	OK	STEAM TRAP IS OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #RFP-24-15 FACE PLATE KIT. STEAM SERVICE VACUUM BREAKER IN COIL OUTLET. INSPECTED 8/2/12.		
203	EAST PENTHOUSE #2B-900 EAST-2-2 AHU STEAM COIL	3-2-5	5	F	7	Z' SPRAXX FT-15	10M	STEAM COIL	OK	STEAM TRAP IS OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #RFP-24-15 FACE PLATE KIT. TRAP HAS STEAM SERVICE VACUUM BREAKER ON BOTH COIL INLET AND OUTLET. OK. INSPECTED 8/2/12.		
204	EAST PENTHOUSE #2B-900 EAST-2-2 AHU HUMIDIFIER	3-2-5	5	F	1	3/4" ARNSTONG 15-83	15M	HUMIDIFIER DRIP	OK	STEAM TRAP IS OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #RK-15-83 REPAIR KIT. INSPECTED 8/2/12.		
205	EAST PENTHOUSE #2B-900 EAST-2-2 AHU HUMIDIFIER	3-2-5	5	F	1	3/4" ARNSTONG 15-83	15M	HUMIDIFIER DRIP	OK	STEAM TRAP IS OK. WHEN WORK, REPAIR STEAM TRAP WITH TUNSTALL #RK-15-83 REPAIR KIT. INSPECTED 8/2/12.		

NOTES:

1. CORRECT PIPING AS NOTED IN REMARKS COLUMN.

COLUMN REFERENCE NOTES:

- ① FURNISH AND INSTALL AN ACOUSTIC WIRELESS STEAM TRAP MONITORING SENSOR PER SPECIFICATIONS.
- ② REPLACE OR REPAIR STEAM TRAP IN ACCORDANCE WITH DESCRIPTION IN REMARKS COLUMN.
- ③ REMOVE STEAM TRAP AND ALL ABANDONED CONDENSATE PIPING TO A POINT WHERE THE CONDENSATE LINE IS LIVE. CAP.
- ④ REPAIR STEAM/CONDENSATE LEAK IN ACCORDANCE WITH DESCRIPTION IN REMARKS COLUMN.
- ⑤ COLD STEAM TRAPS. REPAIR THE VALVES, CONTROLS ETC. AS DESCRIBED IN THE REMARKS COLUMN. INVESTIGATE AND DETERMINE THE REASON FOR ANY OTHER NON-FUNCTIONING STEAM TRAP NO. 1 WERE FOUND TO BE COLD. FIX ALL ITEMS FOUND TO BE NEEDING REPAIR. (FOR PURPOSES OF THIS BID ASSUME THE CONTROL VALVES REQUIRE REPAIR OR REPLACEMENT.) DEDUCT ALTERNATE WORK. SEE THE SPECIFICATIONS FOR THE REQUIRED MATERIALS AND FITTINGS. INSULATE ALL NEW & EXISTING BARE PIPE. DEDUCT ALTERNATE NO. 2.
- ⑥ REPLACE THE EXISTING COPPER PIPING WITH NEW STEEL PIPE AND REPLACE THE EXISTING DIELECTRIC UNIONS AND NIPPLES WITH EQUIVALENT SIZES. SEE THE REMARKS COLUMN FOR REQUIRED WORK. SEE THE SPECIFICATIONS FOR THE REQUIRED MATERIALS AND FITTINGS. INSULATE ALL NEW & EXISTING BARE PIPE. DEDUCT ALTERNATE NO. 2.
- ⑦ FURNISH AND INSTALL NEW STEAM VACUUM BREAKERS IN ACCORDANCE WITH THE REMARKS COLUMN.



ISSUED FOR REBID
FINAL CD-SUBMISSION
65% SUBMISSION
Revisions:

06-23-13
12-21-12
11-30-12
11-16-12
Date

CONSULTANTS:

FREDERICK, FREDERICK & HEILBR
ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HEIGHTS, OHIO 44147
P.O. BOX 1000
P.O. (440) 946-9888

STATE OF OHIO
DIVISION OF HIGHWAY
CONSTRUCTION

ARCHITECT:

Approved Project Director

STEAM TRAP AND WORK SCHEDULE
TRAPS 171-205

Project Title
STEAM TRAP MONITORING,
INSULATION AND PIPING
UPGRADES
VAMC - WADE PARK

Location
Date
12-21-12

Checked
WFW

Drawn
JWF

Project Number
541-12-115

Bidding Number
1

Drawing Number
2-05

Office of Facilities Management

VA FORM 06-6231, OCT 1978